

Sub 417

ABSTRACT

For transferring digital information in the form of consecutive symbols from a transmitter over a transmission channel susceptible for intersymbol interference to a receiver, the following steps are taken in succession:

- a) encoding the digital information to be transmitted with an outer code (202),
- b) interleaving the encoded digital information to be transmitted (203),
- c) encoding the interleaved encoded digital information with a recursive inner code (204) and in conjunction therewith modulating the encoded interleaved encoded digital information onto a carrier (205),
- d) transmitting the carrier containing the modulated encoded interleaved encoded digital information,
- e) receiving the transmitted carrier containing the modulated encoded interleaved encoded digital information,
- f) producing an estimate of the characteristics of the transmission channel (208),
- g) converting the received carrier into consecutive symbols in a SISO equalisation process using the produced estimate of the characteristics of the transmission channel (209),
- h) deinterleaving the consecutive symbols (210), and
- i) decoding the deinterleaved consecutive symbols in a SISO decoding process (211).

Fig. 2